



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P43-840-A-POE AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GEN from Intertek
[ISSUEDATE] 17-AUG-2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
[LUMINAIRE] 2X2' LED TROFFER
[MORE] FROSTED ACRYLIC DIFFUSER
[LUMCAT] AMD2AEG-P43-840-A-PoE AMBIENT ONLY
[LAMPCAT] HLM 80 CRI, 4000K CCT
[_SEARCH_SOURCE] LED
[_SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4336
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	33.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4249	4246	4403
55	3527	3800	3940
65	2749	3162	2607
75	2044	2037	1513
85	1313	1002	809

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1889.899	1889.899	1889.899	1889.899	1889.899
2.5	1888.731	1885.225	1883.607	1887.742	1889.989
5.0	1883.517	1879.023	1875.608	1876.686	1878.843
7.5	1872.102	1865.541	1860.867	1859.608	1857.181
10.0	1854.215	1846.665	1837.856	1834.531	1831.744
12.5	1829.947	1822.037	1810.442	1803.071	1797.229
15.0	1798.128	1789.679	1775.387	1765.050	1757.770
17.5	1760.107	1749.500	1733.681	1721.996	1713.637
20.0	1715.075	1703.750	1685.773	1673.099	1663.482
22.5	1663.841	1651.167	1632.651	1620.247	1611.169
25.0	1608.203	1593.372	1573.148	1562.362	1554.273
27.5	1548.790	1532.071	1511.758	1503.938	1498.005
30.0	1486.860	1469.422	1449.917	1444.075	1440.300
32.5	1420.975	1403.358	1385.560	1383.673	1381.156
35.0	1349.877	1333.518	1318.417	1322.102	1321.743
37.5	1274.015	1259.633	1248.308	1255.948	1258.555
40.0	1195.456	1182.782	1175.592	1188.445	1194.198
42.5	1112.403	1102.965	1101.168	1120.133	1130.650
45.0	1026.744	1020.542	1025.935	1051.462	1064.046
47.5	941.354	940.725	951.062	983.420	997.711
50.0	856.054	861.717	879.874	916.816	926.074
52.5	772.732	784.147	811.472	847.156	852.099
55.0	691.387	708.735	744.868	771.204	772.193
57.5	612.918	634.760	678.354	688.421	666.399
60.0	536.787	562.943	608.514	585.953	566.089
62.5	464.071	494.182	536.966	495.979	468.026
65.0	397.017	430.544	456.700	407.713	376.524
67.5	334.907	370.232	377.063	323.582	297.066
70.0	278.730	314.414	305.965	252.304	230.283
72.5	227.047	260.124	239.091	192.172	175.903
75.0	180.757	206.104	180.127	144.623	133.837
77.5	138.511	154.690	130.062	107.142	100.670
80.0	101.119	109.568	89.884	76.851	73.255
82.5	68.042	69.390	56.897	50.155	47.189
85.0	39.100	36.133	29.841	26.246	24.089
87.5	13.752	11.415	10.427	10.606	10.516
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.090	0.000	0.090
152.5	0.000	0.000	0.090	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.180	0.090	0.000	0.360	0.090
160.0	0.090	0.000	0.270	0.180	0.090
162.5	0.360	0.090	0.090	0.090	0.270
165.0	0.090	0.090	0.270	0.180	0.360
167.5	0.360	0.090	0.180	0.180	0.090
170.0	0.090	0.090	0.270	0.180	0.180
172.5	0.000	0.090	0.360	0.449	0.000
175.0	0.270	0.000	0.180	0.270	0.360
177.5	0.270	0.180	0.270	0.270	0.090
180.0	0.270	0.270	0.270	0.270	0.270

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	678.25	N.A.	15.60
0-30	1404.46	N.A.	32.40
0-40	2233.43	N.A.	51.50
0-60	3690.77	N.A.	85.10
0-80	4296.38	N.A.	99.10
0-90	4336.09	N.A.	100.00
10-90	4158.02	N.A.	95.90
20-40	1555.18	N.A.	35.90
20-50	2354.51	N.A.	54.30
40-70	1876.06	N.A.	43.30
60-80	605.62	N.A.	14.00
70-80	186.89	N.A.	4.30
80-90	39.71	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.10	N.A.	0.00
0-180	4336.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.08
10-20	500.17
20-30	726.22
30-40	828.96
40-50	799.33
50-60	658.01
60-70	418.72
70-80	186.89
80-90	39.71
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.03
160-170	0.05
170-180	0.02

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	165	165	165	165	161	161	161	161	154	154	154	148	148	148	141	141	141	139
1	152	147	141	136	149	143	139	134	138	134	130	132	129	126	127	125	122	119
2	140	129	121	113	136	127	119	112	122	115	109	117	112	107	113	109	105	102
3	128	115	104	96	125	113	103	95	108	100	93	105	98	92	101	95	90	87
4	118	102	91	82	115	101	90	82	97	88	81	94	86	80	91	84	78	76
5	109	92	80	72	106	91	79	71	88	78	70	85	76	70	82	75	69	66
6	101	83	72	63	98	82	71	63	80	70	62	77	68	62	75	67	61	58
7	94	76	64	56	91	75	64	56	73	63	55	71	62	55	69	61	55	52
8	87	69	58	50	85	69	58	50	67	57	50	65	56	50	63	55	49	47
9	82	64	53	46	80	63	53	45	62	52	45	60	51	45	59	51	45	42
10	77	59	49	42	75	58	48	41	57	48	41	56	47	41	55	47	41	39

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

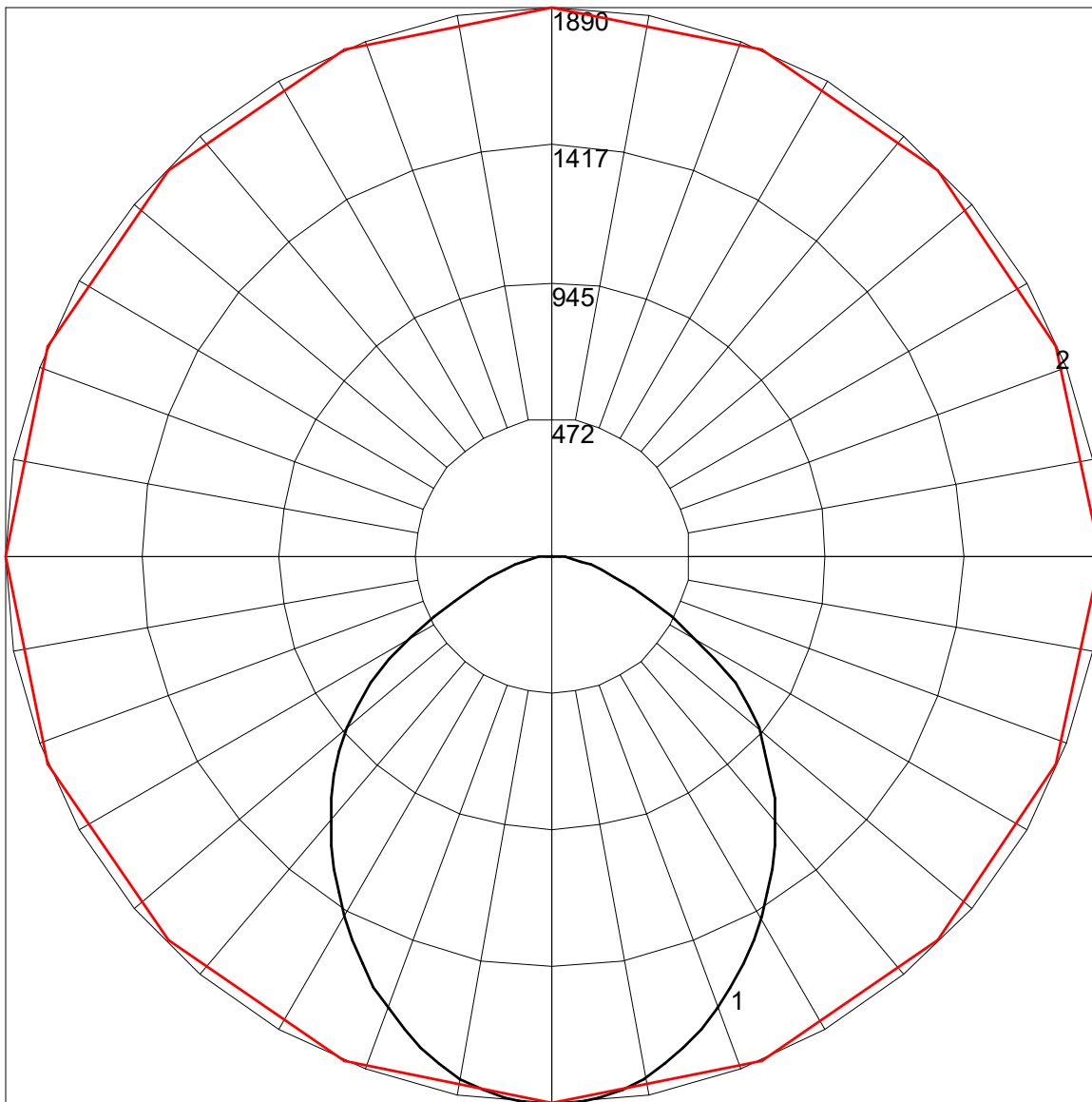
X=2H	Y=2H	15.0	16.6	15.4	16.9	17.2	15.6	17.1	15.9	17.4	17.7
	3H	16.4	17.8	16.7	18.1	18.4	16.4	17.8	16.8	18.1	18.5
	4H	16.8	18.1	17.2	18.5	18.8	16.6	17.9	17.0	18.3	18.7
	6H	17.1	18.3	17.5	18.7	19.1	16.8	18.0	17.2	18.3	18.7
	8H	17.2	18.3	17.6	18.7	19.1	16.8	17.9	17.2	18.3	18.7
	12H	17.2	18.3	17.6	18.7	19.1	16.8	17.9	17.2	18.3	18.7

UGR Viewed Endwise

4H	2H	15.6	16.9	16.0	17.3	17.6	16.1	17.4	16.5	17.7	18.1
	3H	17.2	18.2	17.6	18.6	19.0	17.1	18.2	17.5	18.6	19.0
	4H	17.7	18.7	18.2	19.1	19.6	17.4	18.4	17.8	18.8	19.2
	6H	18.1	19.0	18.6	19.4	19.9	17.6	18.4	18.0	18.9	19.3
	8H	18.2	19.0	18.7	19.5	19.9	17.6	18.4	18.1	18.9	19.3
	12H	18.3	19.0	18.8	19.5	19.9	17.6	18.4	18.1	18.8	19.3
8H	4H	17.9	18.7	18.3	19.1	19.6	17.6	18.4	18.0	18.8	19.3
	6H	18.3	19.0	18.8	19.5	20.0	17.8	18.5	18.3	19.0	19.4
	8H	18.5	19.1	19.0	19.6	20.1	17.9	18.5	18.4	19.0	19.5
	12H	18.6	19.1	19.1	19.6	20.2	17.9	18.5	18.5	19.0	19.5
12H	4H	17.9	18.6	18.4	19.1	19.5	17.6	18.3	18.1	18.8	19.2
	6H	18.3	18.9	18.9	19.4	19.9	17.8	18.4	18.4	18.9	19.4
	8H	18.5	19.1	19.0	19.5	20.1	17.9	18.5	18.5	19.0	19.5

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 1889.989 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)